

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : Confirmation No.  
Applicant : KILLEN, et al.  
Filed : Herewith  
TC/A.U. :  
Examiner :  
  
Docket No. : 7162-114  
Customer No. : 30448

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**INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 CFR 1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

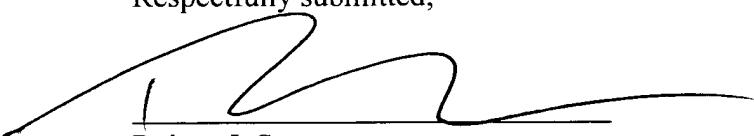
Sir:

This Information Disclosure Statement is being submitted in compliance with 37 CFR 1.97 and 1.98. A list of documents on form PTO 1449 together with a concise explanation or a translation of each non-English language document is enclosed herewith.

This paper is submitted in accordance with 37 CFR 1.97(b) and a fee is not required for consideration of these documents. Please charge any deficiencies to Deposit Acct. No. 50-0951.

Respectfully submitted,

Date: 11/12/03



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<b>Form PTO-1449</b> (Rev. 2-88)  <b>INFORMATION DISCLOSURE STATEMENT</b> <b>BY APPLICANT</b> <i>(Use several sheets if necessary)</i>				U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. <b>7162-114</b>	APPLICATION NO.		
				APPLICANT <b>KILLEN, et al.</b>					
				FILING DATE		GROUP			
				<b>U.S. PATENT DOCUMENTS</b>					
EXAMINER'S INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
		PCT/GB92/01173	6/29/92	PCT			YES NO		
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>									
		<p><i>"Wave guidance and radiation from a hollow tube formed from frequency-selective surfaces," A.J. Robinson, J.C. Vardaxoglou, and R.D. Seager, Electronics Letters, Aug. 19, 1993, Vol. 29, No. 17.</i></p> <p><i>"Realisation of frequency selective horn antenna incited from passive array," J.C. Vardaxoglou, R.D. Seager and A.J. Robinson, Electronics Letters, Oct. 8, 1992, Vol. 28, No. 21.</i></p> <p><i>"Development of a 7.2-, 8.4-, and 32-Gigahertz (X-/X-/Ka-BAnd) Three-Frequency Feed for the Deep Space Network," Stanton, P.H.; Hoppe, D.J., and Reilly, H. TMO Progress Report 42-145, May 15, 2001</i></p> <p><i>"Frequency Selective Surfaces in the GHz and the THz Region: Analysis and Experimental Results," Bozzi, Maurizio and Perregini, Luca. Terahertz and Gigahertz Electronics and Photonics, II. Proceedings of SPIE Vo. 4111 (2000)</i></p> <p><i>"Arrays of Concentric Rings as Frequency Selective Surfaces," Parker, E.A., Hamday, S.M.A., and Langley, R.J. Electronics Letters, Nov. 12, 1981, Vol. 17, No. 23.</i></p> <p><i>"Single-Layer Multiband Frequency-Selective Surfaces," Lee, C.K., Langley, R.J., and Parker, E.A. IEE Proceedings, Vo. 132, Pt. H No. 6, October 1985.</i></p> <p><i>"Frequency Selective Surfaces," Parker, E.A., Langley, R.J., Cahill, R., and Vardaxoglou, J.C. Electronics Laboratories, The University of Kent, Canterbury, UK. Pg. 459.</i></p> <p><i>"Novel 'Soft' Horn Antenna for Multiband Operation," Vardaxoglou, J.C., Seager, Robert D., Robinson, Alan J. Loughborough University of Technology, Department of Electronic and Electrical Engineering, Loughborough Leicestershire LE 11 3TU</i></p>							
		EXAMINER		DATE CONSIDERED					
		<p>* EXAMINER: Initial if a citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							